

Facility ID: 1431400140 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431400140 Emissions Unit ID: P904 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
rotary dryer, hot aggregate elevator, vibrating screens and weigh hopper, w/fabric filter	OAC rule 3745-31-05(A)(3) (PTI 14-3755)	7.0 lbs of particulate emissions (PE)/hour from the fabric filter 5.0 tons per year (TPY) of PE from the fabric filter 2.87 lbs of particulate matter emissions with a diameter of 10 microns or less (PM10)/hour from the fabric filter 2.05 TPY of PM10 emissions from the fabric filter 17.9 lbs of organic compound (OC) emissions/hour from the fabric filter 12.75 TPY of OC emissions from the fabric filter 10.5 lbs of nitrogen oxides (NOx) emissions/hour from the fabric filter 7.5 TPY of NOx emissions from the fabric filter 19.6 lbs of carbon monoxide (CO) emissions/hour from the fabric filter 14.0 TPY of CO emissions from the fabric filter 1.2 lbs of sulfur dioxide (SO2) emissions/hour from the fabric filter 0.83 TPY of SO2 emissions from the fabric filter PE shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases. There shall be no visible PE of fugitive dust from the enclosure for the hot aggregate elevator, vibrating screens and weigh hopper.
	40 CFR, Part 60, Subpart I	See Sections A.2.a and A.2.b below. The visible PE limitation and the PE concentration limitation specified by this regulation are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitations specified by this rule are less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

	OAC rule 3745-17-08(B)	The control measures specified by this rule are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)(1)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
aggregate storage bins and cold aggregate elevator	OAC rule 3745-31-05(A)(3) (PTI 14-3755)	See Sections A.2.c, A.2.d and A.2.e below.
	OAC rule 3745-17-07(B)(1)	The visible PE limitation specified by this rule is the same as the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	The control measures specified by this rule are the same as those established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The PE of fugitive dust from the hot aggregate elevator, vibrating screens and weigh hopper shall be captured and vented to a fabric filter such that there are no visible fugitive PE from the enclosure for the hot aggregate elevator, vibrating screens and weigh hopper.
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average.
Visible PE from any fugitive dust source shall not exceed 20% opacity, as a three-minute average.
The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area.
The aggregate loaded into storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.

B. Operational Restrictions

- 1. The total annual production of asphaltic concrete shall not exceed 500,000 TPY, based on a rolling, 12-month summation.
- 2. The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water column while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. the total amount, in tons, of asphaltic concrete produced; and
 - b. the updated rolling, 12-month summation of the asphaltic concrete produced, in tons.
- 1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall check the pressure drop once a day and maintain daily records of the pressure drop readings.
- 3. The permittee shall perform daily checks, when the emissions unit is in operation, for any visible fugitive particulate emissions from the enclosure for the hot aggregate elevator, vibrating screens and weigh hopper. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

- 1. The permittee shall submit semi-annual reports that summarize the updated rolling, 12-month summation of asphalt production for each month. The reports shall be submitted by February 15 and August 15 of each year and shall cover the previous six calendar months (July through December and January through June, respectively).
- 2. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record that shows a deviation from the allowable range of pressure drop for the baghouse as specified in Section B.2. This report shall be submitted within 30 days of the exceedance.
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the enclosure for the hot aggregate elevator, vibrating screens and weigh hopper and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

- 1. Compliance with the PE, PM10 emissions, OC emissions, NOx emissions, CO emissions, SO2 emissions, visible PE limitations, annual asphaltic concrete production restriction, and the baghouse operational restriction shall be determined by the following methods:
PE Limitations: 7.0 lbs of PE/hour; 5.0 TPY of PE

Applicable Compliance Method: Compliance with the hourly PE limitation shall be determined by multiplying the maximum hourly asphaltic concrete production rate of 350 tons per hour (TPH) by an emission factor of 0.02 lb of PE/ton (from AP-42, Fifth Edition, Chapter 11, Table 11.1-5, dated January 1995) or, if required, by emission testing in accordance with Method 5 of 40 CFR, Part 60, Appendix A. Compliance with the annual PE limitation shall be determined by multiplying the annual asphaltic concrete production rate, in TPY, by the emission factor

of 0.02 lb of PE/ton, and dividing by 2,000 lbs/ton.
 PM10 Emission Limitations: 2.87 lbs of PM10 emissions/hour; 2.05 TPY of PM10 emissions

Applicable Compliance Method: Compliance with the hourly PM10 emission limitation shall be determined by multiplying the maximum hourly asphaltic concrete production rate (350 TPH) by an emission factor of 0.0082 lb of PM10 emissions/ton (from AP-42, Fifth Edition, Chapter 11, Table 11.1-5, dated January 1995) or, if required, by emissions testing in accordance with Method 201 of 40 CFR, Part 60, Appendix A. Compliance with the annual PM10 emission limitation shall be determined by multiplying the annual asphaltic concrete production rate, in TPY, by the emission factor of 0.0082 lb of PM10 emissions/ton, and dividing by 2,000 lbs/ton.
 OC Emission Limitations: 17.9 lbs of OC emissions/hour; 12.75 TPY of OC emissions

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly asphaltic concrete production rate (350 TPH) by an emission factor of 0.051 lb of OC emissions/ton (from AP-42, Fifth Edition, Chapter 11, Table 11.1-10, dated January 1995) or, if required, by emission testing in accordance with Method 25 of 40 CFR, Part 60 Appendix A. Compliance with the annual OC emission limitation shall be determined by multiplying the annual asphaltic concrete production rate, in TPY, by the emission factor of 0.051 lb of OC emissions/ton, and dividing by 2,000 lbs/ton.
 NOx Emission Limitations: 10.5 lbs of NOx emissions/hour; 7.5 TPY of NOx emissions

Applicable Compliance Method: Compliance with the the hourly emission limitation shall be determined by multiplying the maximum hourly asphaltic concrete production rate (350 TPH) by an emission factor of 0.03 lb of NOx emissions/ton (from AP-42, Fifth Edition, Chapter 11, Table 11.1-10, dated January 1995) or, if required, by emission testing in accordance with Method 7 of 40 CFR, Part 60, Appendix A. Compliance with the annual NOx emission limitation shall be determined by multiplying the annual asphaltic concrete production rate, in TPY, by the emission factor of 0.03 lb of NOx emissions/ton, and dividing by 2,000 lbs/ton.
 CO Emission Limitations: 19.6 lbs of CO emissions/hour; 14.0 TPY of CO emissions

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly asphaltic concrete production rate (350 TPH) by an emission factor of 0.056 lb of CO emissions/ton (from AP-42, Fifth Edition, Chapter 11, Table 11.1-10, dated January 1995) or, if required, by emission testing in accordance with Method 10 of 40 CFR, Part 60, Appendix A. Compliance with the annual CO emission limitation shall be determined by multiplying the annual asphaltic concrete production rate, in TPY, by the emission factor of 0.056 lb of CO emissions/ton, and dividing by 2,000 lbs/ton.
 SO2 Emission Limitations: 1.2 lbs of SO2 emissions/hour; 0.83 TPY of SO2 emissions

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly asphaltic concrete production rate (350 TPH) by an emission factor of 0.0033 lb of SO2 emissions/ton (from AP-42, Fifth Edition, Chapter 11, Table 11.1-10, dated January 1995) or, if required, by emission testing in accordance with Method 6 of 40 CFR, Part 60, Appendix A. Compliance with the annual SO2 emission limitation shall be determined by multiplying the annual asphaltic concrete production rate, in TPY, by the emission factor of 0.0033 lb of SO2 emissions/ton, and dividing by 2,000 lbs/ton.
 Visible PE Limitation: Visible PE from any fugitive dust source shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by using Method 9 of 40 CFR, Part 60, Appendix A, except that the data reduction provision shall be a three-minute average.
 Visible PE Limitation: Visible PE from any stack shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by using Method 9 of 40 CFR, Part 60, Appendix A.
 PE Concentration Limitation: PE concentration shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases.

Applicable Compliance Method: Compliance with the PE concentration limitation shall be determined by the procedures specified in U.S. EPA Test Method 5 of 40 CFR, Part 60, Appendix A.
 Asphaltic Concrete Production Restriction: not to exceed an annual production rate of 500,000 TPY of asphaltic concrete, based on a rolling, 12-month summation

Applicable Compliance Method: Compliance with the annual production restriction shall be determined by the record keeping requirements specified in Section C.1.
 Emission Limitation: No visible PE of fugitive dust from the hot aggregate elevator, vibrating screens and weigh hopper.

Applicable Compliance Method: Compliance with the visible PE limitation shall be determined by using Method 22 of 40 CFR, Part 60, Appendix A.
 Baghouse Operational Restriction: The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water column.

Applicable Compliance Method: Compliance with the baghouse operational restriction shall be determined by the record keeping requirements specified in Section C.2.b.

F. Miscellaneous Requirements

1. None